



Testbed Roundup:

Joint Hurricane Testbed

Shirley Murillo - NOAA/AOML

Chris Landsea - NOAA/NHC

Jiann-Gwo Jiing - NOAA/NHC

Joint Hurricane Testbed is funded by the US Weather Research Program in NOAA/OAR's Office of Weather and Air Quality.

Joint Hurricane Testbed (JHT) since 2001

- Bridge hurricane research and operations
- Began in 2001 under the USWRP
- Our Mission: successfully <u>transfer</u> new technology, research results & observational advances from research groups to operational centers
- Testing is done at NHC or EMC

JHT: The Process

- Call for Proposals drafted and disseminated (bi-annually)
- Principal Investigators apply for funding through NOAA
- 7 member Steering Committee rates all proposals
- Funded projects are tested during 1 or 2 hurricane seasons in conjunction with NHC/EMC points of contact
- At the project's end, each are evaluated by NHC/EMC staff
- Implementation of successful projects are then carried out by NHC/EMC staff/PIs

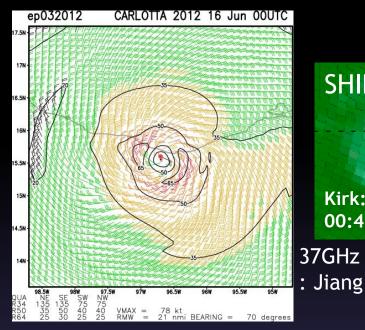
JHT: The statistics

- Number of projects supported: 74
 - 62 completed
 - 39.5 accepted for operational implementation
 - 6 projects completed but rejected
 - 9.5 projects completed but pending further investigation (decisions deferred)
- 12 projects started in fall 2011
- Implementation
 - 35.5 projects implemented: (including 4 5th round projects)
 - 10 numerical modeling related projects implemented by EMC/NCO:
 - 24.5 projects implemented by NHC:
 - 4 projects accepted but not yet fully implemented by NHC:

2012-2013 Major JHT Activities - 6th round

Primary Area of Focus	# of Projects
Improvements to dynamical models (for track, intensity, and precipitation forecasts)	3
Statistical intensity forecast guidance	4
Enhancements to observed data, assimilation	4
Tropical cyclone structure/wind/wave distribution	1
Total	12

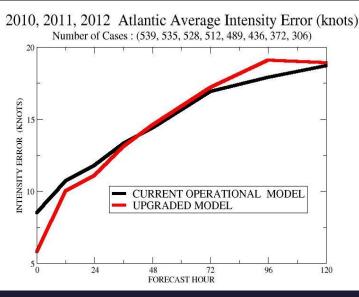
Project Highlights - 6th round



SHIPS

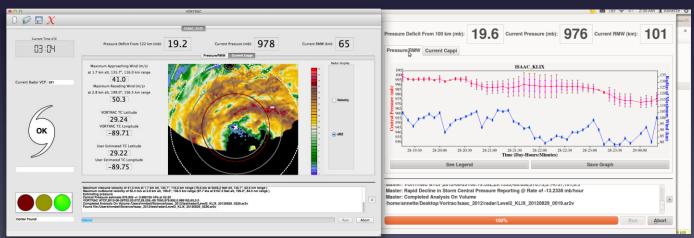
Kirk: TMI 08/30
00:41 UTC (35h before RI ends)

37GHz Micro Ring Pattern



Auto Sfc wind: Knaff

GFDL/GFDN improvements: Bender



2012-2013 Major JHT Activities - 6th round

March – August 2012

- Testing of 6th round (2011-2013) projects during the season
- One project completed (1 yr project)
- Year 1/Renewal Proposals submitted and reviewed
- Eleven projects funded for 2nd year

March 2013

- Pls present year 2 progress at IHC
- Submit mid-yr progress reports

June - August 2013

Final season to test of projects

2012-2013 Major JHT Activities - 7th round

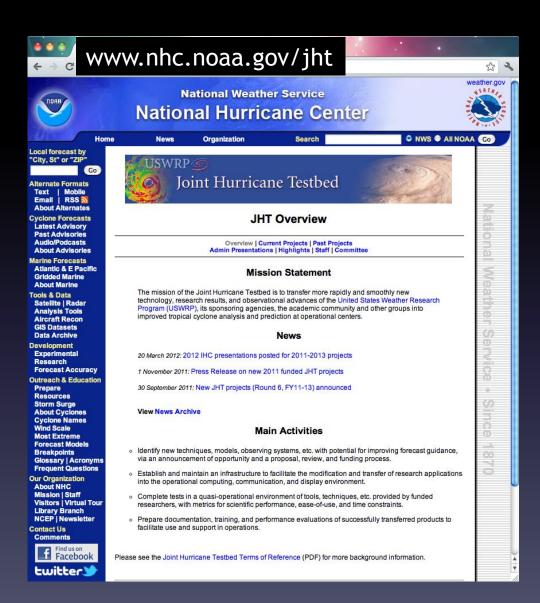
August 2012

- Announcement of Opportunity released (\$1M)
 - Included an updated list of operational priorities

October 2012

- 36 Letters of Intent reviewed
- December 2012 January 2013
 - 22 Full proposals are being reviewed
- February April 2013
 - Rank and select proposals for funding
 - Work with OWAQ to fund selected projects
 - Find Point of contacts among NHC forecasters and support staff
 - Work with PIs to setup timelines for their projects
- June November 2013
 - Begin real-time testing during hurricane season

JHT Web site: for additional info



Thank you





An Update of the

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